**PRODUCT DESCRIPTION**

- Non-heat-treatable alloy
- Principle alloying elements: iron
- Density: 2.71 g/cm²
- Standard diameter: *.375", .500" (9.5mm, 12.7mm)
- Tempers supplied: H (Strain Hardened)

**STANDARD PACKAGING**

- **Randomly wound:**
  - **Weight:** 5,600 lbs (2,540 kg)
  - **ID:** 30.75" (78.10 cm)
  - **OD:** 61.50" (156.21 cm)
  - **W:** 34.00" (86.36 cm)
  - **Option:** Palletized, eye-to-the-sky, ID and/or OD wrapping
  - Rod surface condition: very clean to oiled

**END-USE APPLICATION**

- Electrical conductor
- Magnet wire

**GENERAL INFORMATION**

- Wire specification: ASTM B800
- No intermediate anneal can be assumed in processing H24 WIRE
- Conductivity of H24 wire increased up to 1% by batch annealing rather than in-line resistance annealing
- AA designation: 8176 alloy

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th>TEMPER</th>
<th>ULTIMATE TENSILE STRENGTH</th>
<th>PERCENT ELONGATION</th>
<th>RESISTIVITY</th>
<th>TEMP. COEFF. OF RESISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ksi (MPa)</td>
<td></td>
<td>OHM-mm²/mm</td>
<td>@ 20°C</td>
</tr>
<tr>
<td><strong>ROD (.375&quot;)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H24</td>
<td>15-20 (105-140)</td>
<td>12-15</td>
<td>0.029222</td>
<td>0.00390</td>
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<tr>
<td><strong>WIRE (10 AWG)</strong></td>
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<tr>
<td>H24</td>
<td>17-19 (115-130)</td>
<td>10-14</td>
<td>0.028264</td>
<td>0.00403</td>
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<tr>
<td>H19</td>
<td>30-35 (205-240)</td>
<td>&lt;2</td>
<td>0.029222</td>
<td>0.00390</td>
</tr>
</tbody>
</table>

*other diameters: .375" (9.5mm) – 1.0" (25.4mm) available upon minimum quantity requirements
**other packaging: 4,000 lbs (1,814 kg) – 7,500 lbs (3,402 kg) available based upon minimum quantity requirements